SBR No. 48/17-18
DATED 27/6/2017

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

EE/ELE/Y/BR.No. 48/17-18

No. 1st & Final Bill

Date.....2010 Dt 27-6-17

Division: **Electricals (Yelahanka)**

Sub-Division: **Electricals**

Bill Received No. Dated Divisional / Sub Divisional

Cash Book Voucher No..... Dated.....

Schedule Docket No. **Job Code :-004-17-000012**

D.R.No. :

Head of Account : P 3089 7CMC and 1TMC in BBMP area

Name of Work : Providing and Supplying Electrical Fitting and timer in Yelahanka Division (Providing and Supplying of Remaining Electrical Fittings to Yelahanka Lake of Yelahanka Subdivision)

Name of Contractor and Full Address:**Technical Maneger-2, KRIDL,**

Reference to Agreement No:EE/Ele/YZ/WO/22 /17-18 Date:31-05-2017

Certified that the measurements were taken by me on 27/6/17 and recorded of Pages 311417 to 431 of measurement Book No. 3115/17-18 and that the work is satisfactorily executed.

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL, BBMP, Bangalore

Contractor

T.N. Baddyjeff

Officer-in-charge of work

Certified that the measurement were taken by me on 27/6/17 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub Divisional Officer
Assistant Executive Engineer (Elec.)
Yelahanka Sub Division

II Memorandum of Payment

1)	Total value of work done or supplies made as per account within	Bill = 39.83.652=00
2)	Deduct amount to be held in reserve being .....percent Rs.....	IT 2% = 79.673=00
3)	" Balance	VAT 4% = 1.59.346=00
4)	Deduct Payment:	Amount 1% 39.837=00
	a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... adjusted towards cash advance recovery of	FSD 7.50% 2.98.774=00
	b) Payments Now made } cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.	CBFD 0.1% = 3984=00
		deductions = 5.81.614=00.
		Cheque = 34.02.038=00
5)	Balance being unpaid value of work done held in reserve.	
6)	Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.	
7)	Net amount due to or from Contractor unadjustments items.	
8)	Advance to Contractor for materials brought to site (as detailed) within.	
9)	Value of Government materials supplied.	
	Total amount adjusted -	

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL, BBMP, Bangalore

Contractor's Signature

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum

(in final settlement of all demands)

Witness

1.

2.

Dated

Signature of Contractor

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL, BBMP, Bangalore

Paid by me by Cheque No. .....Dated.....

Cash Rs.....

Dated.....

Initials of Officer making payment

(For use in the Office)

Stamp

ಲೆಕ್ಕಶೀರ್ಷಿಕೆ P3089 7CMC 1TMC grounds

ರೂ: 39.83.652=00 ಅಡಿಯಲ್ಲಿ ಮಾಡಿ ಸ್ವೀಕರಿಸಿದೆ

ರೂ: 34.02.038=00 ಚೆಕ್ ನೀಡಬಹುದಾಗಿದೆ

ರೂ: 5.81.614=00 ಜೊಂದಾಣಿಕೆ ಮಾಡಿದೆ

Executive Engineer

ಲೆಕ್ಕ ಪರಿಶೋಧಕರು ಕಾ.ಪಾ.ಅ.(ವಿ) ಯಲಹಂಕ ವಲಯ

Sl no	Description of item	Unit
	Name of Work : Providing and Supplying Electrical Fitting and timer in Yelahanka Division (Providing and Supplying of Remaining Electrical Fittings to Yelahanka Lake of Yelahanka Subdivision)	
1	Supplying High pressure Sodium Vapour street light luminaire **250Watts** suitable for use with high pressure Sodium Vapour lamp with integrated control gear & grey color power coated. The fitting shall be non corrosive pressure die cast aluminum housing with high purity anodized aluminum reflector with EPDM Gaskets suitable for Outer Dia of pole 40mm - 60mm. Cable Entry through a cable gland with toggle clips. IP65 Protection for both optical & Electrical Compartment. Bottom cover may be with Poly carbonate/tempered/ toughened glass. Luminaire efficiency should be >60% & ambient temperature > 35 deg C. High Intensity Discharge Electro Magnetic Ballast with Copper winding of Orthocyclic winding coil. Class H insulated dual coated copper wire. Compliance to IEC 61347-2-9 Safety & IEC 60923 - Performance. Winding Temperature for HID Ballast Tw = 130 deg C & temperature rise ?T = 70 deg C. Luminaire shall be suitable to operate on 230/250 Volts finish including wiring, suitable to operate on 230/250 Volts 50 Hz AC supply finish including wiring, ignitor, condenser. SS Toggles for opening front hingeable glass.	Nos
2	Supplying and Fixing of.....mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires.Using 32mm dia G.I.pipe	each
3	Decorative Carbon and Steel pole light: Lighting pole arrangement with steel pole of Dia 165mm, 4mm thick, height of the pole 3000mm, with a base plate of 300mm square of thickness 15mm. The pole is galvanized and painted black outside. The pole has perforations that are internally covered with acrylic tube. There is an arrangement of fixing retrofit CFL of 36 Watts. The main lighting source consists of 150 Watts M.H G-12 lamp suitably wired with ballast, ignitor, condenser etc., The reflector is placed on a triangular frame and the reflector is made of ABS material including supplying and fixing foundation bolts manufactured from special steel along with nuts, washers, anchor plates and templates with all lead and lift other incidental charges etc., all complete as per the standard specification.	Each
4	Fabricating, supplying and erection of ...Mtrs long hot dip Galvanized Octagonal pole with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for .....Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom .....mm, top....mm with 3mm thick, suitable base plate and 4Nos of ..... long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc., (excluding foundation) as per drawing appended.7	Each
5	LED Street light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools.	

Previous		Present Measurement			Total Upto Date		Remarks
Qty.	Cost	Qty.	Rate	Amount	Qty	Cost	
		100	6900.00	690000.00	100	690000.00	
		100	893.00	89300.00	100	89300.00	
		10	29500.00	295000.00	10	295000.00	
		14	12240.00	171360.00	14	171360.00	

	LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI 75+. housing with supplier word mark / name shall be engraved / Embossing on the die cast housing / body part. . Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacturer. Suitable for A1/A2 Roads as per IS 1944 Part I & Part II.90 Watts	Nos
6	Providing Rcc Pole pedstal of Size 0.5x0.5x1.6 Mtrs Including digging of pit, tor steel, anchoring bolts nuts ,templates ,Centring,1;4;8base concrete,1;2;4pedestal concrete and etc coplete as per the data sheet enclosed	Each
7	Supplying of LED Floodlight with .....W System Power consumption pressure die cast aluminum housing with powder coating with IP 65 protection. 1, 200-275V voltage with electronic Driver, PF>0.9, should meet ANSI 2G Vibration test, Compliance to UL/CE with Class I. System rating shall be 50K hrs. @ Lumen maintenance of 70%, system efficacy > 80lm/w. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer.LED Floodlight 110W	Nos
8	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanished, steel wire/steel tap armoured cable with PVC outer sheating 1.1 KV class.I. Class 'A' PVC Cable. 4 core 16 sqmm	Per Mtr
9	3.5 core 35 sqmm	Per Mtr
10	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench Gl pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct. 6 sqmm to 16 sqmm	Per Mtr
11	b)25sqmm to 75 sqmm	Per Mtr
12	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete. (As perCivil SR KSRB I-2, P-7).a) In soil (ordinary)	Per Mtr
13	e) C.C. cutting	Per Mtr
14	Supplying High pressure ..... Metal halide flood light luminary suitable for use with high pressure metal halide lamp with integrated control gear. The fitting shall be non corrosive high pressure die cast aluminum housing powder coated with toughened and heat resistant glass with low copper content black/grey powder coated paint finish with EPDM gasket. Reflector shall be made of high purity pre-anodized aluminum. Cable entry through a cable gland with toggle clips. IP 65 protection for both and optical and electrical compartment. Bottom cover may be with polycarbonate / tempered / toughened glass. Luminaire efficiency should be > 60% and ambient temperature > 35 deg C. High intensity discharge Electro magnetic ballast with copper winding of Octocyclic winding coil. Class H insulated dual coated copper wire. Compliance to IEC 61347-2-9 Safety and IEC 60923- performance Winding temperature for HID ballast tw = 130 deg C and temperature rise ?T - 70 deg C. Luminaire shall be suitable to operate on 230/250Vointenance at the sight site location with minimized minimal tools. pening front hingeable glass.facturing defect working under standard electrica	each
15	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and Copper conductor single core cable in open or consealed system of wiring.I Group A Materials.1.5 sqmm	Per Mtr

		9	31250.00	281250.00	9	281250.00	
		14	4199.00	58786.00	14	58786.00	
		16	17593.00	281488.00	16	281488.00	
		6895	140.40	968058.00	6895	968058.00	
		700	204.00	142800.00	700	142800.00	
		6895	10.80	74466.00	6895	74466.00	
		697	16.00	11152.00	697	11152.00	
		5273	78.00	411294.00	5273	411294.00	
		40	212.00	8480.00	40	8480.00	
		13 15	6699.00	87,087.00 100485.00	13 15	87087 100485.00	
		79	15.90	1256.10	79	1256.10	

16	Open Conduit Systeme: Supplying heavy gauge PVC conditpipe,..... dia confirming to IS 2509 with suitable size bends,junction boxes, adhesibve paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or plug incase of brick walls and cement plastering damaged portionusing heavy gauge saddles at an interval of 700mm using NF screws.c)25mm dia 2mm thick	Per Mtr
17	Supply, installation, testing and commissioning of booster amplifier with power handling of 250 to 300 watt RMS 4ohms Dual and 100/70 volt output on bridge mode single channel Rack mountable Specs: frequency response : 20 htz to 20khtz	Nos
18	Supplying, fixing and wiring electronic 10 to 40 Amps three phase 4 wire class-1 Accuracy Energy Meter.	Nos
	Total Rs	
	Add KRIDL Charges 9.1%	
	Grand Total Rs	

Certificate: 1. Certify that theThe Above said Work has been carreidout satisfactorily

Asst. Executive Engineer (Elec.)
Yelahanka Sub-Division
Bruhat Bangalore Mahanagara Palike

		0	70.00	0.00	0	0.00	
		2	27550.00	55100.00	2	55100.00	
		5	4900.00	24500.00	5	24500.00	
			3651377=10	3664775.10		3664775.10	3651377=10
			332275=00	333494.53		333494.53	332275=00
				3998269.63		3998269.63	

39,83,652=10

39,83,652=10,